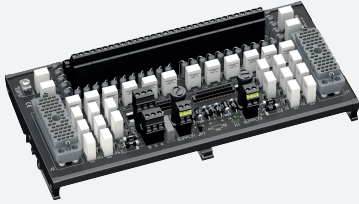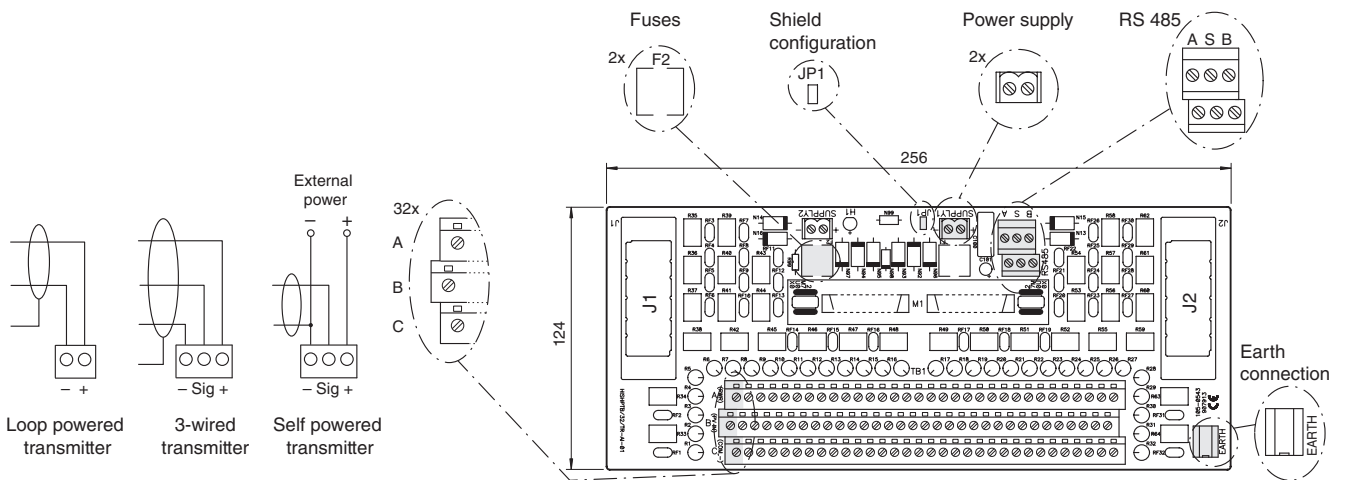# HART Termination Board
HiSHPTB/32/TR-AI-01-Y1

- Triconex 3700A and 3721 replacement FTA
- 2- or 3-wire or self powered transmitters
- Outputs: 2 x 16 channels, 0 V ... 10 V differential, DC coupled (makes 32 channels)
- Short-circuit protected
- Plug-n-play wiring capabilities
- Optimized for use in floating power configurations

Function

The Termination Board is designed for easy HiDMux2700 Multiplexer integration with the Tricon safety system. This version is a modification of the standard AI termination board (HiSHPTB/32/TR-AI-01) and is specially designed for systems using a floating field power configuration. With the Multiplexer integrated into the board and plug-n-play option for the DCS equipment, this provides a very clean access to the HART signals, while reducing the need for marshalling cabinets and reducing equipment that require extra cabinet space.
The HART Termination Board provides a robust solution for on-line HART communications, interfaces up to 32 field located HART devices, and it allows the user to replace standard DCS field termination panels.

Connection

Technical Data

Supply		
Rated voltage	U_r	20 ... 30 V DC
Fusing		3.15 A , 5 x 20 mm (0.2 x 0.8 inch)
Power dissipation		0.7 W , with Multiplexer
Reverse polarity protection		yes
HART signal channels (intrinsically safe)		
HART signal channels		
Number of channels		32 unbalanced signal loops
Redundancy		
Supply		yes
Galvanic isolation		

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Technical Data

HART signal channels	30 V DC
Ambient conditions	
Ambient temperature	0 ... 55 °C (32 ... 131 °F)
Relative humidity	5 ... 90 %, non-condensing
Mechanical specifications	
Core cross section	2.5 mm^2 (16 AWG)
Connection	field side: screw terminals control side: 56-pin Elco connector RS 485 interface: removable screw terminals power: removable screw terminals
Mass	approx. 500 g
Dimensions	without HiDMux2700: 256 x 125 x 79 mm (10 x 4.9 x 3.1 inch) (W x H x D) with HiDMux2700: 256 x 125 x 208 mm (10 x 4.9 x 8.2 inch) (W x H x D)
Height	125 mm
Width	256 mm
Depth	208 mm
Mounting	DIN rail mounting
General information	
Supplementary information	Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

Additional Information

Connection Assignment

Connector	Channel
J1	1 ... 16
J2	17 ... 32

Configuration

Jumper	Analog input	Galvanic grounding	Capacitive grounding
JP1	RS-485	closed	opened

Interface
Triconex I/O interface
- 3700A
- 3721

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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